

NEOS Operation Center

Kerry Kingham, M.S. Carter

Abstract

This report covers the activities of the NEOS Operation Center at USNO for 2010. The Operation Center schedules IVS-R4 and the INT1 Intensive experiments.

1. VLBI Operations

NEOS operations in the period covered consisted, each week, of one 24-hour duration IVS-R4 observing session, on Thursday-Friday, for Earth Orientation, together with five daily one-hour duration “Intensives” for UT1 determination, Monday through Friday. In 2010, the operational IVS-R4 network included VLBI stations at Kokee Park (Hawaii), Wettzell (Germany), Ny-Ålesund (Norway), TIGO (Chile), Svetloe, Badary and Zelenchukskaya (Russia), Hobart (Australia), Yebes (Spain), and Matera and Medicina (Italy). A typical R4 consisted of five to eight stations.

The regular stations for the weekday IVS Intensives were Kokee Park and Wettzell. Intensives including Kokee Park, Wettzell, and Svetloe were observed twice per month in order to characterize the Kokee Park — Svetloe baseline so that Svetloe can be used as an alternate for Wettzell should it be needed. This year, Wettzell underwent a major overhaul and Kokee Park — Ny-Ålesund Intensives were scheduled during the period Wettzell was unavailable.

The Operation Center updated the version of sked as updates became available.

All sessions are correlated at the Washington Correlator, which is located at USNO and is run by NEOS.

Table 1. Experiments Scheduled during 2010.

52	IVS-R4 experiments
220	Intensives (Kk-Wz or Kk-Ny)
2	Kk-Sv-Wz Intensives
3	Kk-Sv-Ny Intensives

2. Staff

K. A. Kingham and M. S. Carter are the only staff members of the NEOS Operation Center. Kingham is responsible for the overall management, and Carter makes the schedules. M. S. Carter is located at the USNO Flagstaff Station (NOFS).



Figure 1. U. S. Naval Observatory Flagstaff Station, location of half of the Operation Center.